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Page: 1 of 16

FCC ID: 2ACFM85800878

TEST REPORT

The following sample(s) was/were submitted and identified on behalf of the client as:

| Application No.: | GZEM1505002514CR | | | | | |
|----------------------|---|--|--|--|--|--|
| Applicant: | SHANTOU CITY DAYE PLASTIC TOYS CO.,LTD | | | | | |
| Manufacturer: | The same as applicant | | | | | |
| FCC ID: | 2ACFM85800878 | | | | | |
| Product Description: | Walkie talkie series | | | | | |
| Model No.: | WT3-01057, WT6-01032, WT6-01050, WT6-01096, WT2-01062, WT2-01050, | | | | | |
| | WT2-01096, WT2-01367, WT2-01082, WT2-01032, WT2-01084, WT2-02081, | | | | | |
| | WT3-01056, WT3-01032, WT3-01096, WT3-01082, WT3-01009, WT3-01062, | | | | | |
| | WT3-01346, WT3-01081, BK1-05082, BK1-05081, BK1-05057, BK1-05032, | | | | | |
| | BK1-05080, BK1-05085, BK1-05096, WT6-01009, WT6-01062, WT6-01367, | | | | | |
| | WT6-01082, WT6-01084, WT6-01056, WT6-01057, WT6-01346 * | | | | | |
| * | Please refer to section 3 of this report for further details. | | | | | |
| Standards: | CFR 47 PART 15 Subpart C: 2014 section 15.235 | | | | | |
| Date of Receipt: | 2015-05-27 | | | | | |
| Date of Test: | 2015-06-09 to 2015-06-15 | | | | | |
| Date of Issue: | 2015-06-18 | | | | | |
| Test Result : | Pass* | | | | | |

In the configuration tested, the EUT detailed in this report complied with the standards specified above. Please refer to section 3 of this report for further details.

Manager The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards

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Report No.: GZEM150500251401

Page: 2 of 16

FCC ID: 2ACFM85800878

2 Version

| Revision Record | | | | | | | | |
|-----------------|---------|------------|----------|-----------------|--|--|--|--|
| Version | Chapter | Date | Modifier | Remark | | | | |
| 00 | | 2015-06-18 | | Original Report | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| Authorized for issue by: | | |
|--------------------------|--------------------------------|--------------------------------|
| Tested By | (Lily Kuang) /Project Engineer | 2015-06-09 to 2015-06-11 Date |
| Prepared By | Sandy Zheng | 2015-06-17 |
| | (Sandy Zheng) / Clerk | Date |
| Checked By | Little Xiang | 2015-06-18 |
| | (Little Xiang) / Reviewer | Date |



Report No.: GZEM150500251401

Page: 3 of 16

FCC ID: 2ACFM85800878

3 Test Summary

| Test | Test Test Requirement | | Result | |
|----------------------------|-----------------------|-------------------------|--------|--|
| Padiated Emission | FCC PART 15 C | ANSI C 63.10:2009 | PASS | |
| Radiated Emission | section 15.235 | Clasue 6.4, 6.5 and 6.6 | FASS | |
| Occursional Dependentialth | FCC PART 15 C | ANSI C 63.10:2009 | DACC | |
| Occupied Bandwidth | section 15.235 | Clasue 6.9 | PASS | |

Remark:

EUT: In this whole report EUT means Equipment Under Test. N/A: not applicable. Refer to the relative section for the details.

Tx: In this whole report Tx (or tx) means Transmitter. Rx: In this whole report Rx (or rx) means Receiver. RF: In this whole report RF means Radio Frequency.

♣ Model No.:

WT3-01057, WT6-01032, WT6-01050, WT6-01096, WT2-01062, WT2-01050, WT2-01096, WT2-01367, WT2-01082, WT2-01032, WT2-01084, WT2-02081, WT3-01056, WT3-01032, WT3-01096, WT3-01082, WT3-01009, WT3-01062, WT3-01346, WT3-01081, BK1-05082, BK1-05081, BK1-05057, BK1-05032, BK1-05080, BK1-05085, BK1-05096, WT6-01009, WT6-01062, WT6-01367, WT6-01084, WT6-01056, WT6-01057, WT6-01346

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference being the color, appearance, package and assort.

Therefore only one model WT3-01057 was tested in this report.



Report No.: GZEM150500251401

Page: 4 of 16

FCC ID: 2ACFM85800878

4 Contents

| 1 | Cove | er Page | 1 |
|---|------------|---|-----|
| | | | |
| 2 | Vers | ion | 2 |
| _ | | | _ |
| 3 | Test | Summary | 3 |
| 4 | Con | tents | 1 |
| 4 | Com | ICI1(5 | 4 |
| 5 | Gen | eral Information | 5 |
| | 5.1 | | |
| | 5.1 5.2 | Client Information | |
| | 5.2 | Details of E.U.T. | |
| | 5.4 | Description of Support Units | |
| | 5.5 | Deviation from Standards | |
| | 5.6 | Abnormalities from Standard Conditions | 5 |
| | 5.7 | Other Information Requested by the Customer | 5 |
| | 5.8 | Test Location | 5 |
| | 5.9 | Test Facility | 6 |
| 6 | Equi | pment List | 7 |
| | • | • | |
| 7 | Test | Results | 8 |
| | 7.1 | E.U.T. test conditions | 8 |
| | 7.2 | Antenna Requirement | |
| | 7.3 | Radiated Emissions | |
| | 7.4 | Occupied Bandwidth | .15 |



Report No.: GZEM150500251401

Page: 5 of 16

FCC ID: 2ACFM85800878

5 General Information

5.1 Client Information

Applicant: SHANTOU CITY DAYE PLASTIC TOYS CO.,LTD

Address of Applicant: CHENGHAI DISTRICT SHANTOU CITY, GUANGDONG

PROVINCE, CHINA

Manufacturer: The same as applicant
Address of Manufacturer: The same as applicant

5.2 General Description of E.U.T.

Product Description: Walkie talkie series

Model No.: WT3-01057

5.3 Details of E.U.T.

Modulation and Antenna

Type:

The Tx is a ASK modulation by internal signal with an integral antenna.

Power Supply:

DC 4.5 V (3 x 1.5 V 'AAA' batteries)

Power cord: N/A

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Deviation from Standards

None.

5.6 Abnormalities from Standard Conditions

The EUT passed Spurious emissions test after modification.

5.7 Other Information Requested by the Customer

None.

5.8 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District,

Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



Report No.: GZEM150500251401

Page: 6 of 16

FCC ID: 2ACFM85800878

5.9 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by to National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any aç of the Federal Government.

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

• SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier EMC TESTING SERVICES and SAFETY TESTING SERVICES.

CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

• FCC (Registration No.: 282399)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance le from the FCC is maintained in our files. Registration 282399, May 31, 2002.

Industry Canada (Registration No.: 4620B-1)

The 3m/10m Alternate Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., L has been registered by Certification and Engineering of Industry Canada for radio equipment testing with Registration No. 4620B-1.

VCCI (Registration No.: R-2460, C-2584, G-449 and T-1179)

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2460, C-2584, G-449 and T-1179 respectively.

• CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01:2006-10 and Rule procedure IECEE 02:2006-10, and the relevant IECEE CB-Scheme Operational documents.



Report No.: GZEM150500251401

Page: 7 of 16

FCC ID: 2ACFM85800878

6 Equipment List

| RE in Cha | RE in Chamber | | | | | | | | |
|-----------|--|------------------------------------|------------|-------------|--------------|--------------|--|--|--|
| Na | Took Farriamont | Manufacturer | Model No. | Carriel No. | Cal. date | Cal.Due date | | | |
| No. | Test Equipment | Manufacturer | Model No. | Serial No. | (YYYY-MM-DD) | (YYYY-MM-DD) | | | |
| EMC0525 | Compact Semi- Anechoic Chamber | ChangZhou ZhongYu | N/A | N/A | 2014-12-5 | 2015-12-5 | | | |
| EMC0522 | EMI Test Receiver | Rohde & Schwarz | ESIB26 | 100283 | 2015-03-02 | 2016-03-02 | | | |
| EMC0056 | EMI Test Receiver | Rohde & Schwarz | ESCI | 100236 | 2015-04-07 | 2016-04-07 | | | |
| EMC0528 | RI High frequency Cable | SGS | 20 m | N/A | 2014-04-19 | 2016-04-19 | | | |
| EMC2025 | Trilog Broadband Antenna 30-1000MHz | SCHWARZBECK MESS- ELEKTRONIK | VULB 9160 | 9160-3372 | 2014-07-14 | 2017-07-14 | | | |
| EMC0524 | Bi-log Type Antenna | Schaffner -Chase | CBL6112B | 2966 | 2013-08-31 | 2016-08-31 | | | |
| EMC0519 | Bilog Type Antenna | Schaffner -Chase | CBL6143 | 5070 | 2014-05-04 | 2017-05-04 | | | |
| EMC2026 | Horn Antenna 1-18GHz | SCHWARZBECK MESS- ELEKTRONIK | BBHA 9120D | 9120D-841 | 2013-08-31 | 2016-08-31 | | | |
| EMC0518 | Horn Antenna | Rohde & Schwarz | HF906 | 100096 | 2012-07-01 | 2015-07-01 | | | |
| EMC0521 | 1-26.5 GHz Pre-Amplifier | Agilent | 8449B | 3008A01649 | 2015-03-02 | 2016-03-02 | | | |
| EMC2065 | Amplifier | HP | 8447F | N/A | 2014-08-25 | 2015-08-25 | | | |
| EMC0075 | 310N Amplifier | Sonama | 310N | 272683 | 2015-03-02 | 2016-03-02 | | | |
| EMC0523 | Active Loop Antenna | EMCO | 6502 | 42963 | 2014-03-03 | 2016-03-03 | | | |
| EMC2041 | Broad-Band Horn Antenna (14)15-26.5(40)GHz | SCHWARZBECK MESS- ELEKTRONI | BBHA 9170 | 9170-375 | 2014-05-26 | 2017-05-26 | | | |
| EMC2079 | High Pass Filter(915MHz) | FSY MICROWAVE | HM1465-9SS | 009 | 2015-03-02 | 2016-03-02 | | | |
| EMC2069 | 2.4GHz filter | Micro-Tronics | BRM 50702 | 149 | 2015-03-02 | 2016-03-02 | | | |
| EMC0530 | 10m Semi- Anechoic Chamber | ETS | N/A | N/A | 2014-05-03 | 2016-05-03 | | | |

| General used equipment | | | | | | | |
|------------------------|----------------|--------------|-----------|------------|--------------|--------------|--|
| No. | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. date | Cal.Due date | |
| | rest Equipment | | | Serial No. | (YYYY-MM-DD) | (YYYY-MM-DD) | |
| EMC0006 | DMM | Fluke | 73 | 70681569 | 2014-09-15 | 2015-09-15 | |
| EMC0007 | DMM | Fluke | 73 | 70671122 | 2014-09-15 | 2015-09-15 | |



Report No.: GZEM150500251401

Page: 8 of 16

FCC ID: 2ACFM85800878

7 Test Results

7.1 E.U.T. test conditions

Test Voltage: DC 4.5 V (new battery)

Requirements: 15.31(e): For intentional radiators, measurements of the variation of

the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the

equipment tests shall be performed using a new battery.

Operating Environment:

Temperature: 22-25.0 °C Humidity: 48-55% RH Atmospheric Pressure: 1001-1010 mbar

Test frequencies and frequency range:

According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and, if required, reported for each band in which the device can be operated with the device operating at the number of frequencies in each band

specified in the following table:

According to the 15.33 (a) For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency

shown in the following table:

Number of fundamental frequencies to be tested in EUT transmit band

| Frequency range in which device operates | Number of frequencies | Location in frequency range of operation |
|--|-----------------------|---|
| 1 MHz or less | 1 | Middle |
| 1 MHz to 10 MHz | 2 | 1 near top and 1 near bottom |
| More than 10 MHz | 3 | 1 near top, 1 near middle and 1 near bottom |

Frequency range of radiated emission measurements

| Lowest frequency generated in the device | Upper frequency range of measurement |
|--|---|
| 9 kHz to below 10 GHz | 10th harmonic of highest fundamental frequency or to 40 GHz, whichever is lower |
| At or above 10 GHz to below 30 GHz | 5th harmonic of highest fundamental frequency or to 100 GHz, whichever is lower |
| At or above 30 GHz | 5th harmonic of highest fundamental frequency or to 200 GHz, whichever is lower, unless otherwise specified |

Remark: Test frequency is 49.86 MHz.



Report No.: GZEM150500251401

Page: 9 of 16

FCC ID: 2ACFM85800878

7.2 Antenna Requirement

Standard requirement

15.203 requirement:

For intentional device. According to 15.203. an intentional radiator shall be designed to

Ensure that no antenna other than that furnished by the responsible party shall be used with the device.

EUT Antenna

The antenna is an Integral Antenna integrated on the main PCB with the screws and no consideration of replacement. The best case gain of the antenna is 0 dBi.



Test result: The unit does meet the FCC requirements.



Report No.: GZEM150500251401

Page: 10 of 16

FCC ID: 2ACFM85800878

7.3 Radiated Emissions

Test Requirement: FCC Part 15 C section 15.235
Test Method: ANSI C63.10: Clause 6.4, 6.5.
Measurement Distance: 3 m (Semi-Anechoic Chamber)
Test Status: Test in transmitting mode.

Requirements:

the field strength of emissions from intentional radiators operated under this Section shall not exceed the following:

15.235(a) :The field strength of any emission within this band shall not exceed 10,000 microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in Section 15.35 for limiting peak emissions apply.

15.235(b): The field strength of any emissions appearing between the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 26 dB below the level of the unmodulated carrier or to the general limits in Section 15.209, whichever permits the higher emission levels. The field strength of any emissions removed by more than 10 kHz from the band edges shall not exceed the general radiated emission limits in Section 15.209. All signals exceeding 20 microvolts/meter at 3 meters shall bereported in the application for certification

Out of band emissions shall not exceed:

| Frequency range(MHz) | Quasi-peak limits dB (μV/m) | | | |
|--|-----------------------------|--|--|--|
| 30 to 88 | 40 | | | |
| 88 to 216 | 43.5 | | | |
| 216 to 960 | 46 | | | |
| Above 960 | 54 | | | |
| At transitional frequencies the lower limit applies. | | | | |

Test Procedure:

1) 9 kHz to 30 MHz emissions:

For testing performed with the loop antenna. The center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specied distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane.

2) 30 MHz to 1 GHz emissions:

For testing performed with the bi-log type antenna. The measurement is performed with the EUT rotated 360°, the antenna height scaned between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

Detector:

| Test Receiver test | Detector | | | |
|--------------------|-----------------------|-----------------------|--|--|
| setup | Peak | Average | | |
| RBW | 120 kHz for f < 1 GHz | 120 kHz for f < 1 GHz | | |
| VBW | ≥ RBW | ≥ RBW | | |
| Sweep | auto | auto | | |
| Detector function | peak | AV | | |
| Trace | max hold | max hold | | |



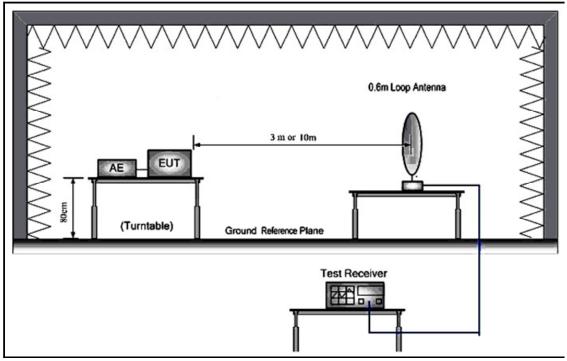
Report No.: GZEM150500251401

Page: 11 of 16

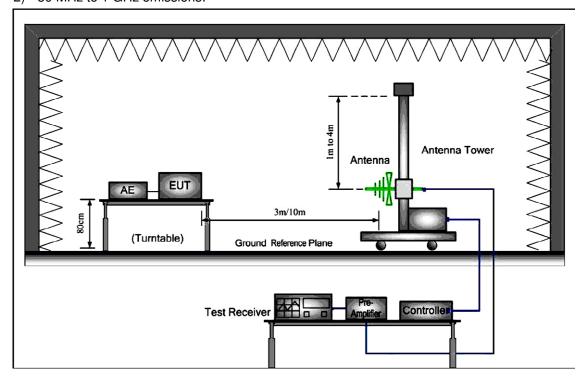
FCC ID: 2ACFM85800878

Test Configuration:

1) 9 kHz to 30 MHz emissions:



2) 30 MHz to 1 GHz emissions:





Report No.: GZEM150500251401

Page: 12 of 16

FCC ID: 2ACFM85800878

1) Fundamental emission:

Antenna polarization: Vertical:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Remark |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|---------|
| 49.860 | 54.03 | 6.77 | 0.04 | 26.72 | 34.12 | 100.0 | -65.88 | Peak |
| 49.860 | 53.85 | 6.77 | 0.04 | 26.72 | 33.94 | 80.0 | -45.88 | Average |

Antenna polarization: Horizontal:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Remark |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|---------|
| 49.860 | 40.12 | 6.77 | 0.04 | 26.72 | 21.11 | 100.0 | -78.89 | Peak |
| 49.860 | 40.97 | 6.77 | 0.04 | 26.72 | 21.02 | 80.0 | -58.89 | Average |

Y: rotate EUT by 90° vertically.

X: rotate EUT by 90° clockwise.

Z: EUT as Radiated Emission test setup photograph in section 6 of this report.

Remark: Radiated Emission test setup photograph in section 6 of this report is the worst case and reported.

2) other emissions:

The receiver was scanned from the lowest frequency generated within the EUT to 1 GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. The worst case emissions were reported.

An initial pre-scan was performed in the 3 m chamber using the spectrum analyzer in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bilog antenna with 2 orthogonal polarities.

The field strength is calculated by adding the Antenna Factor, Cable Factor & Peramplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor -Peramplifier Factor. The following test results were performed on the EUT.



Report No.: GZEM150500251401

Page: 13 of 16

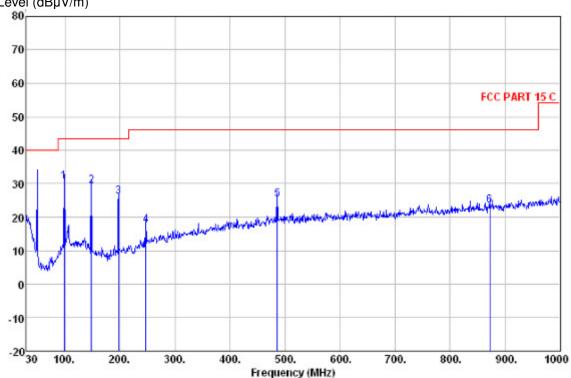
FCC ID: 2ACFM85800878

9 kHz~30 MHz Field Strength of Unwanted Emissions.Quasi-Peak Measurement
The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

30 MHz~1 GHz Field Strength of Unwanted Emissions.Quasi-Peak Measurement Vertical:

Peak scan

Level (dBµV/m)



Quasi-peak measurement

| Dood Antonio | | | Cable Preamp | | | 1 4 4 | 0 | | |
|--------------|-------|-------|--------------|-------|--------|----------|---------|--------|--------|
| | | Read | antenna | cable | Preamp | | Limit | 0∨er | |
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dBu∀ | dB/m | dB | | dBu∀/m | dBu\//m | dB | |
| | PINZ | abuv | OD/III | ab | ab | ubuv/III | ubuv/m | ub | |
| | | | | | | | | | |
| 98 | .870 | 46.45 | 10.59 | 0.21 | 26.58 | 30.67 | 43.50 | -12.83 | QP |
| 148 | .340 | 45.40 | 9.71 | 0.48 | 26.37 | 29.22 | 43.50 | -14.28 | QP |
| 197 | . 810 | 42.86 | 8.77 | 0.73 | 26.10 | 26.26 | 43.50 | -17.24 | OP |
| | | | 11.45 | | 26.00 | | | | • |
| 247 | .200 | 51.5/ | 11.45 | 0.// | 20.00 | 17.59 | 40.00 | -20.41 | Ų٢ |
| 485 | . 900 | 33.41 | 17.35 | 1.53 | 26.98 | 25.31 | 46.00 | -20.69 | QP |
| 871 | . 960 | 27.50 | 20.73 | 2.00 | 26.85 | 23.38 | 46.00 | -22.62 | OP |



Report No.: GZEM150500251401

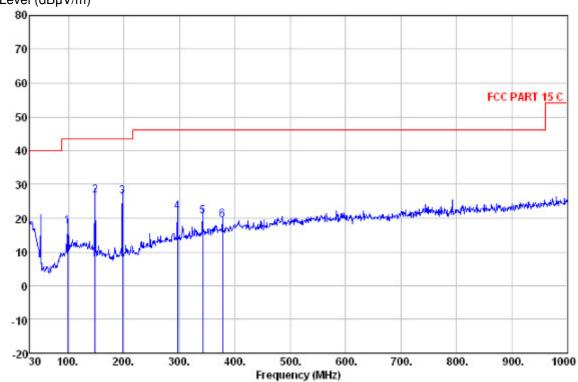
Page: 14 of 16

FCC ID: 2ACFM85800878

Horizontal:

Peak scan

Level (dBµV/m)



Quasi-peak measurement

| | | | Cable Preamp Loss Factor | | | | | Domank |
|---------|-------|--------|-----------------------------|--------|--------|--------|--------|----------|
| rreq | rever | ractor | LOSS | ractor | rever | LINE | LIMIC | Reliairk |
| MHz | dBu∨ | dB/m | dB | dB | dBu\/m | dBu∨/m | dB | |
| 98.870 | 33.48 | 10.59 | 0.21 | 26.58 | 17.70 | 43.50 | -25.80 | QP |
| 148.340 | 42.95 | 9.71 | 0.48 | 26.37 | 26.77 | 43.50 | -16.73 | QP |
| 197.810 | 42.90 | 8.77 | 0.73 | 26.10 | 26.30 | 43.50 | -17.20 | QP |
| 296.750 | 34.09 | 12.60 | 0.98 | 25.83 | 21.84 | 46.00 | -24.16 | QP |
| 342.340 | 31.39 | 14.01 | 1.18 | 26.04 | 20.54 | 46.00 | -25.46 | QP |
| 378,230 | 29.23 | 15.46 | 1.20 | 26.32 | 19.57 | 46.00 | -26.43 | OP |

Remark:

According to 15.35 (b) When average radiated emission measurements are specified in the regulations, including emission measurements below 1000 MHz, there is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules, e.g., see Section 15.255.



Report No.: GZEM150500251401

Page: 15 of 16

FCC ID: 2ACFM85800878

7.4 Occupied Bandwidth

Test Requirement: FCC Part 15 C section 15.235
Test Method: ANSI C63.10: Clause 6.9
Test Status: Test in transmitting mode.

Requirements:

15.235(b):The field strength of any emissions appearing between the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 26 dB below the level of the unmodulated carrier.

Operation within the band: 49.82 – 49.90 MHz.

Test Procedure:

The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector. The vertical Scale is set to 10dB per division. The horizontal scale is set to 10 kHz per division. Read the down 26dB bandwidth of the carrier.

Set the spectrum analyzer: start at 49.81MHz and stop at 49.91MHz.

Set the spectrum analyzer: RBW = 10 kHz, VBW = 30 kHz Sweep = auto; Detector Function = Peak. Trace = Max Hold.

Mark the peak frequency and -26 dB points bandwidth.

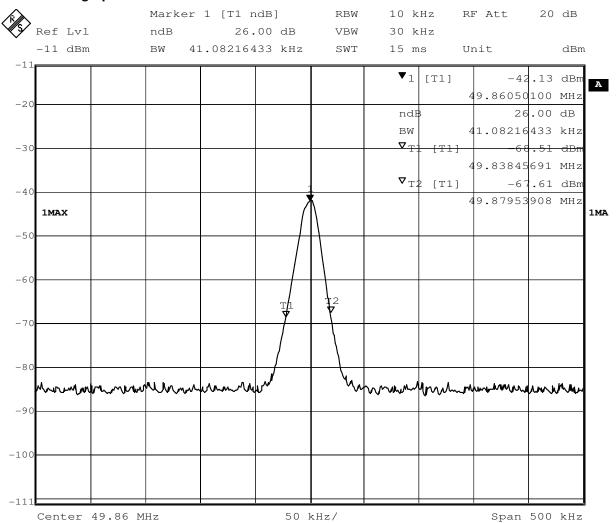


Report No.: GZEM150500251401

Page: 16 of 16

FCC ID: 2ACFM85800878

The graph as below:



26dB bandwidth lower frequency: 49.83845691MHz 26dB bandwidth upper frequency: 49.87953908MHz

-- The End of Report--